

Fig. 1

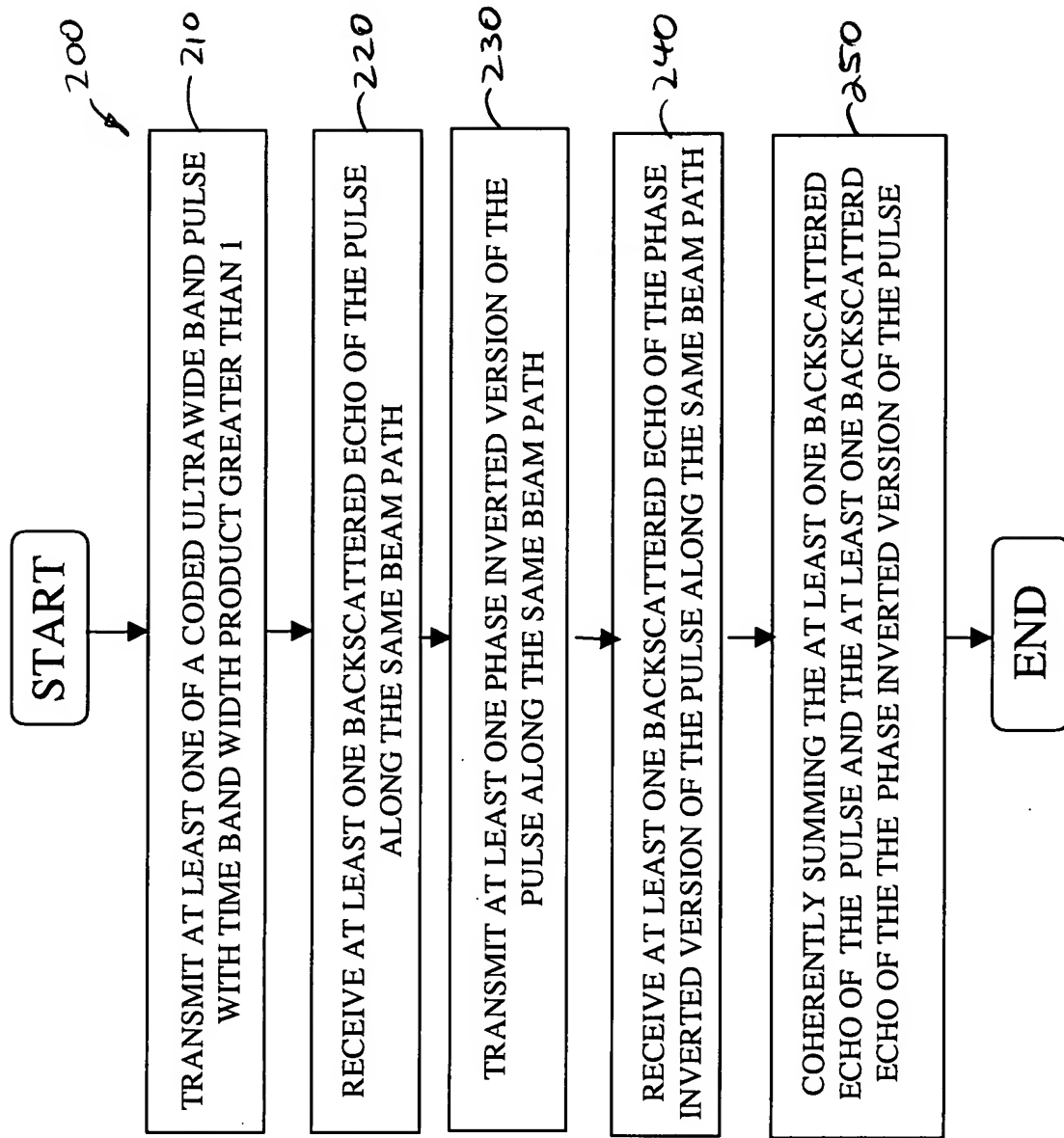


Fig. 2

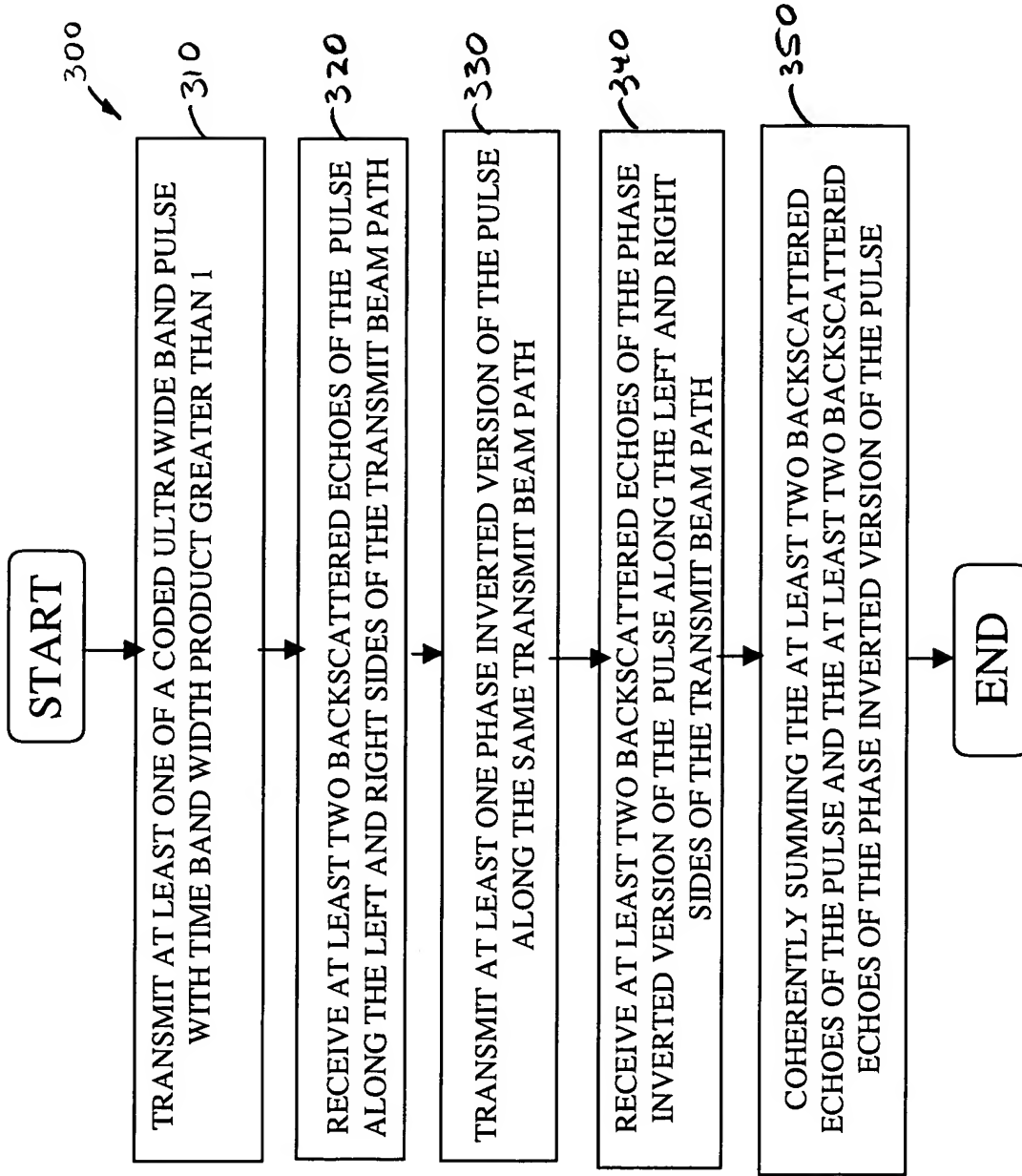


Fig. 3

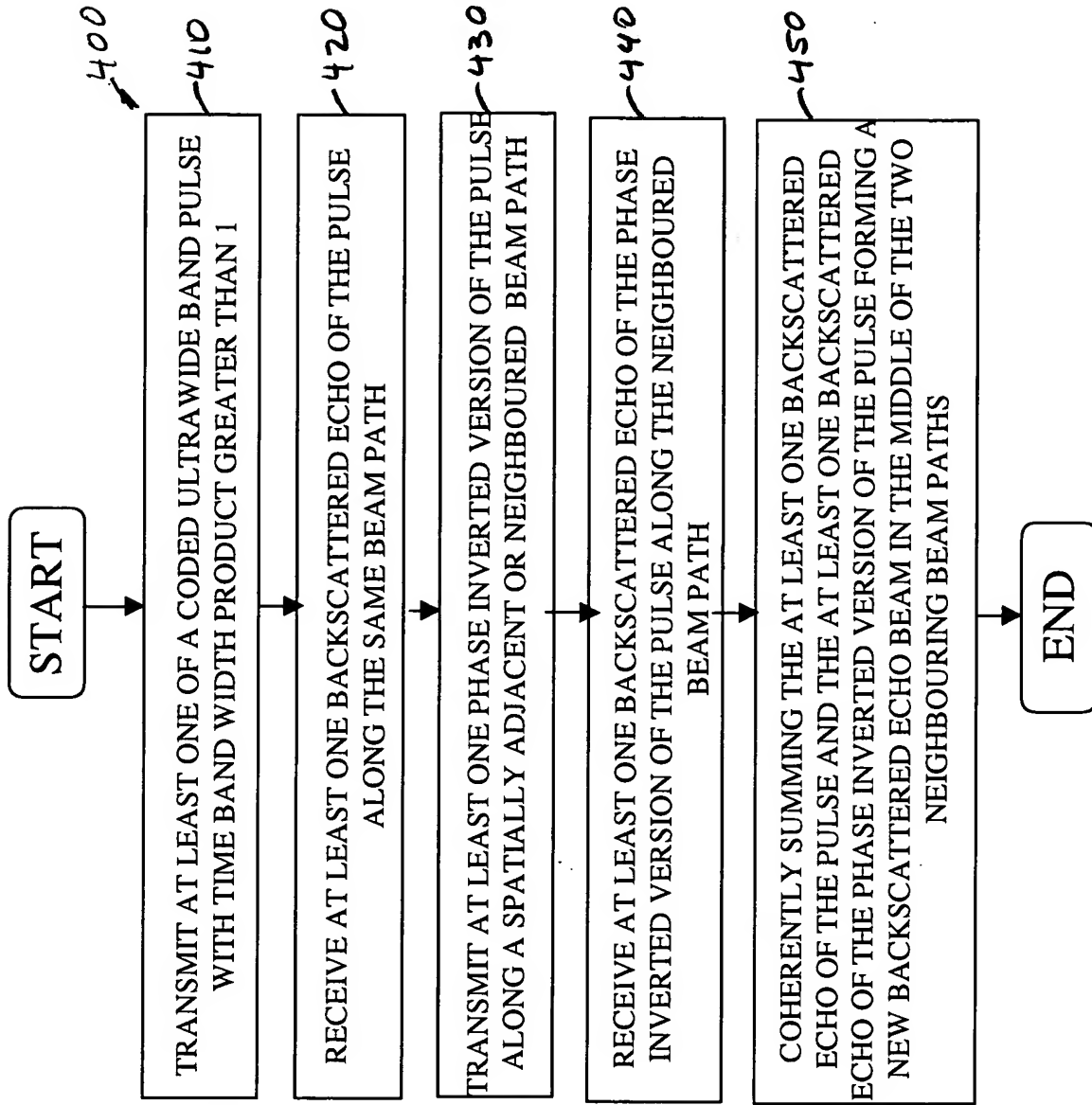


Fig. 4

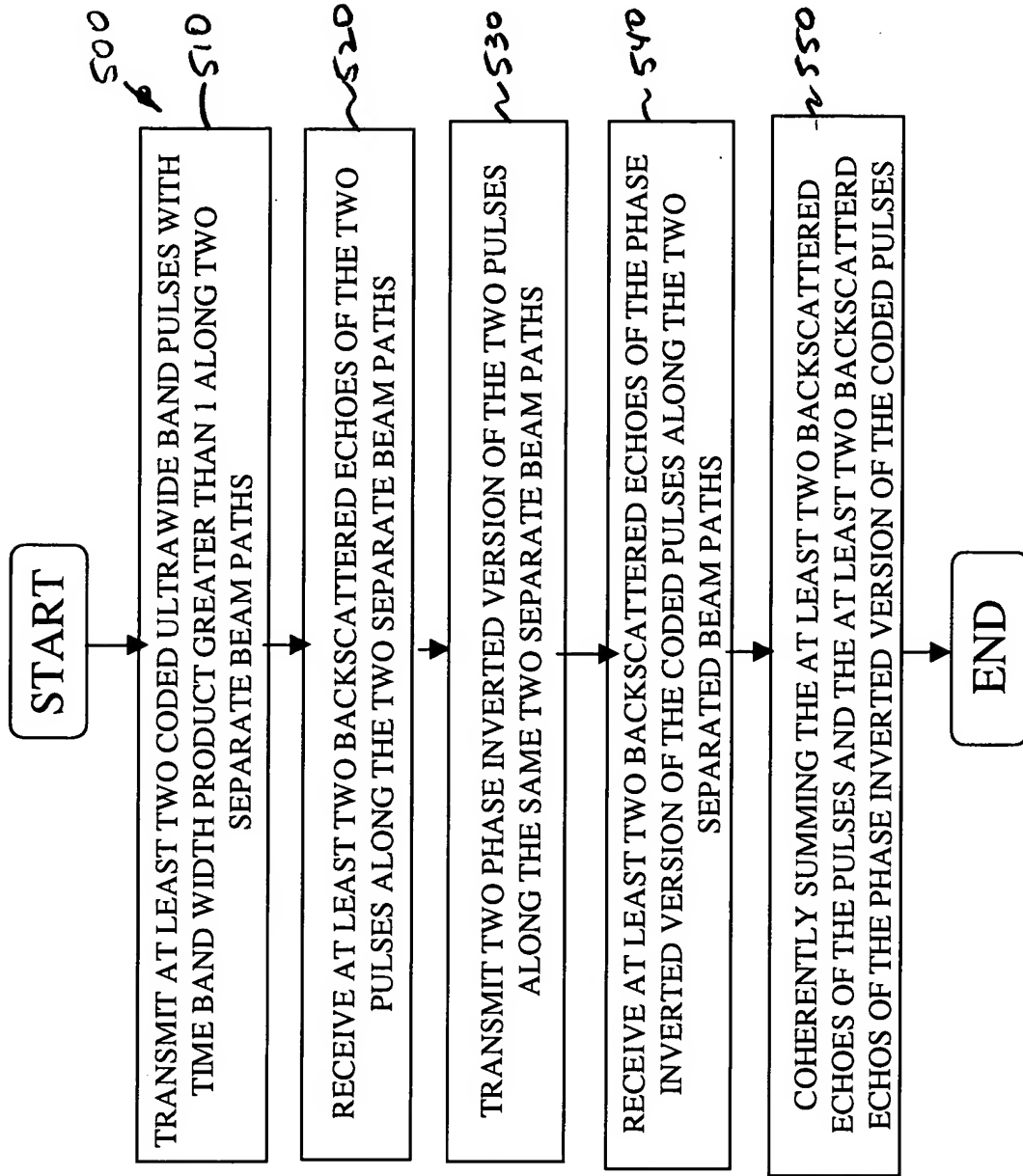


Fig. 5

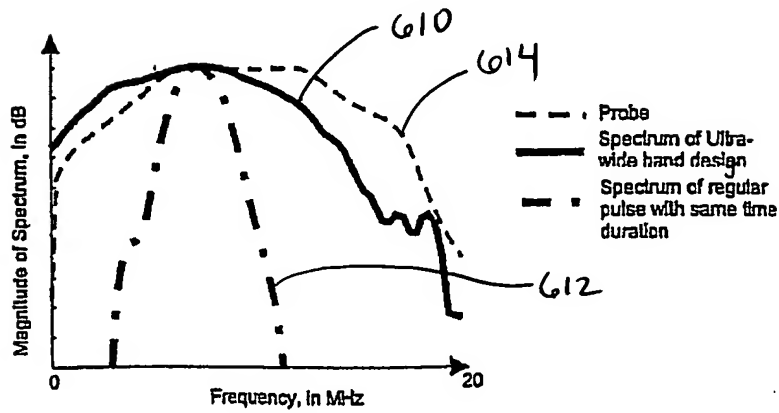


Fig. 6 Spectrum of the Ultra-wide band pulse and a regular pulse with the same time duration and center frequency

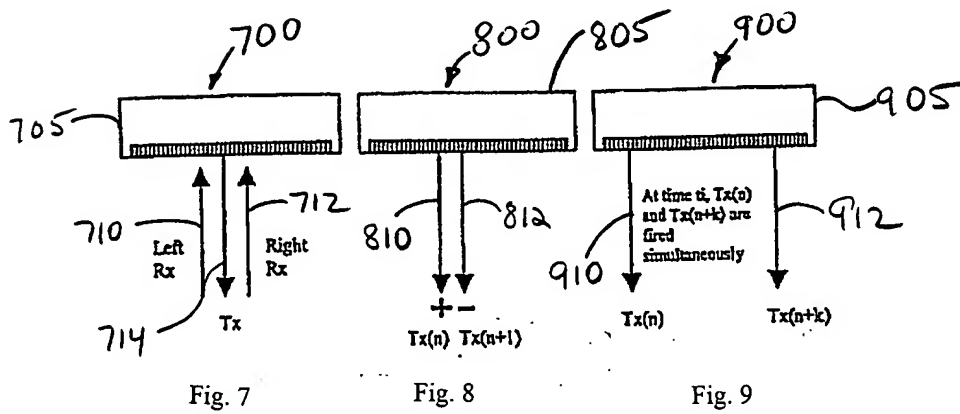


Fig. 7

Fig. 8

Fig. 9

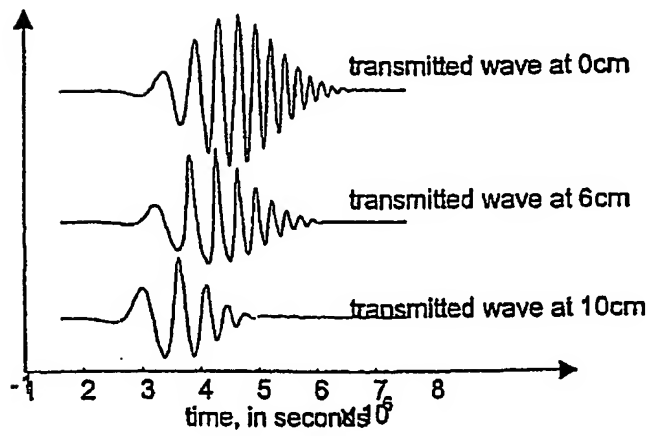


Fig. 10 Attenuation effect on the Ultra-wide band transmitted signal